SUBMERSIBLE PUMP LIFT STATION / SLUDGE LEVEL TRANSMITTER



Model BC001 Birdcage®

MODEL BC001 BIRDCAGE®

FEATURES:

- 3-inch diameter sensing diaphragm resists clogging
- Protective baffle plate reduces risk of sensor damage
- Corrosion-resistant, all stainless steel construction
- Submersible to 1,100 feet (335 meters) WC
- Surge protection from lightning strikes and voltage spikes
- Ranges from 0-10 thru 0 to 1,100 FTWC (0-3 to 0-335 mWC)
- Lifetime Surge Warranty Replacement Program when partnered with the BCP3000 Surge Protector (sold separately)
- Stock quantities available to ship in 1 to 3 days

APPLICATIONS:

- Submersible pump lift station level monitoring
- Wet wells
- Process sumps
- Water tanks and reservoirs
- Process sludge (including heavy sludge)
- Water and wastewater level monitoring

PRODUCT OVERVIEW:

The BC001 Birdcage® from Blue Ribbon Corporation is a submersible lift station and sludge level transmitter. Its all stainless steel design incorporates a 3-inch diameter clog-resistant sensing diaphragm and corrosion-resistant protective baffle plate. These features facilitate high-accuracy level measurements, even in heavy sludge conditions. This combination of durability and accuracy, along with over 30 years of proven field service, make the Birdcage® the industry gold standard in water and wastewater level monitoring.

FIELD OPTIONS:

- FM & CSA Instrinsically Safe
- External lightning / surge protection package optional
- 4-20 mA or 0-5 Vdc Output
- Optional temperature Output

*For details of available approvals, go to:
https://blueribboncorp.com/certifications/

BR5SL-TX-001
REV-E

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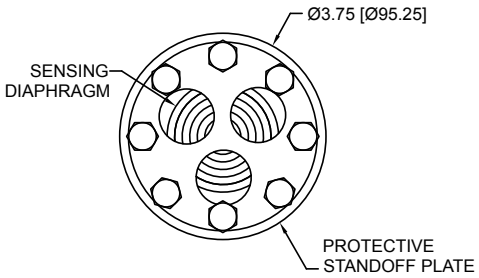
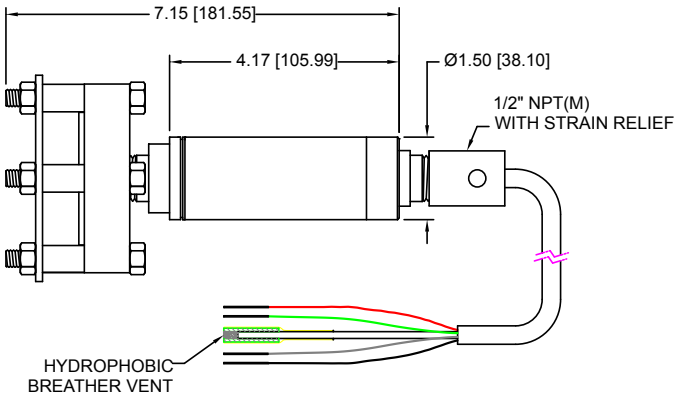
DIMENSIONAL DRAWING

All dimensions are in inches (mm)





STANDARD WIRING

WIRE	MODEL BC001
1/RED	+EXC/SIG
2/GRN	N/C
3/WHT	N/C
4/BLK	-EXC/SIG
5/BLU	N/C
6/BRN	N/C
SHIELD	OPEN

REFERENCE SPECIFICATIONS

ELECTRICAL

- **Supply Voltage:** 9 to 36 Vdc
- **Output Signal:** 4-20 mA
- **Circuit Protection:** RFI, EMI & surge protection
- **Load Impedance:** 1,350 Ω max. at 36 Vdc and 750 Ω at 24 Vdc
- **Insulation Resistance:** >10 MΩ at 50 Vdc and +70 °F
- **Connection:** 1/2" NPT (M) conduit with 40 feet of 3-conductor, 18 AWG Hytrel jacketed cable (optional Tefzel jacketing)

MATERIALS OF CONSTRUCTION

Housing: 316 SST
Wetted Parts: 316 SST

THERMAL SPECIFICATIONS

- **Compensated:** 0 °F to + 140 °F (-17.7 °C to +60 °C)
- **Operating Ambient:** -40 °F to +150 °F (-40 °C to +66 °C)
- **Effect on Zero Span** ±2% FSO/100 °F

STATIC ACCURACY (BFSL) (NON-LINEARITY @ +70 °F)

- **Standard:** ±0.5%
- **Optional:** ±0.2%
- **Zero/Span Balance and FSO:** ±1.0% FSO at +70 °F

MECHANICAL

- **Process connection:** Oil filled diaphragm
- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 5X FSO
- **External Pressure:** 500 PSI max. (35 BAR)
- **Weight:** 5.5 lb (2.5 kg)

PRESSURE RANGES

0-5 thru 0-500 PSI (0-10 FTWC thru 0-1153 FTWC)
0-3 thru 0-335 meters WC

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact Blue Ribbon Corporation for assistance with your application.

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